

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: December 11, 1995  
Date Received: November 30, 1995  
Project: Metro Self Monitor, PO #M51487  
Date Samples Extracted: December 6, 1995  
Date Extracts Analyzed: December 7, 1995

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL AND ZINC**

**Samples Processed Using Method 3005**  
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M51487	0.82	0.52	0.45	0.10
Method Blank	<0.05	<0.05	<0.05	<0.05

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: December 11, 1995

Date Received: November 30, 1995

Project: Metro Self Monitor, PO #M51487

**QUALITY ASSURANCE RESULTS  
FOR CHROMIUM, COPPER, NICKEL AND ZINC**

Laboratory Code: 64398 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.82	0.76	8	0-20
Copper	mg/L (ppm)	0.52	0.46	12	0-20
Nickel	mg/L (ppm)	0.45	0.38	17	0-20
Zinc	mg/L (ppm)	0.10	0.09	11	0-20

Laboratory Code: 64398 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.82	95	95	80-120	0
Copper	mg/L (ppm)	5	0.52	87	89	80-120	2
Nickel	mg/L (ppm)	10	0.45	96	94	80-120	2
Zinc	mg/L (ppm)	5	0.10	98	98	80-120	0

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	102	80-120
Copper	mg/L (ppm)	5	96	80-120
Nickel	mg/L (ppm)	10	101	80-120
Zinc	mg/L (ppm)	5	103	80-120


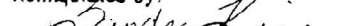
## SAMPLE CHAIN OF CUSTODY

KNJ AI  
11.30.95  
2:25

Company Alaskan Copper Contact Gerald Thompson  
Address 628 Harvard St.  
City, State, Zip Seattle, WA 98134  
Phone # (206) 623-3800 ext 529 Date 11/30/95

SAMPLERS (Signature)		PROJECT LOCATION	
Sandra King		3200 6 <sup>th</sup> AVE. S	
REMARKS		SAMPLE DISPOSAL INFORMATION	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	SANDRA KING	Alaskan Copper	11/30/95	1:53 PM
Received by: 	C. DOWNING	FAB 1	11/30/95	1:55
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

December 11, 1995

Gerry Thompson, Project Leader  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

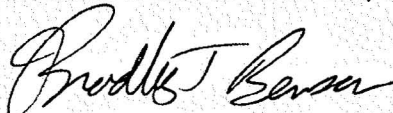
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 30, 1995 from your Metro Self Monitor, PO #M51487 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

  
Kurt Johnson  
Chemist

keh  
Enclosures  
FAX: 382-7335  
ACU1211R.DOC

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

December 11, 1995

**INVOICE # 95ACU1211-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51487: Results of testing requested by  
Gerry Thompson, Project Leader for material submitted on November 30,  
1995.

1 process water sample analyzed for Chromium, Copper,  
Nickel, Zinc @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00